**Understanding Common Core State Standards for Mathematics**

***Standards of Mathematical Practice***

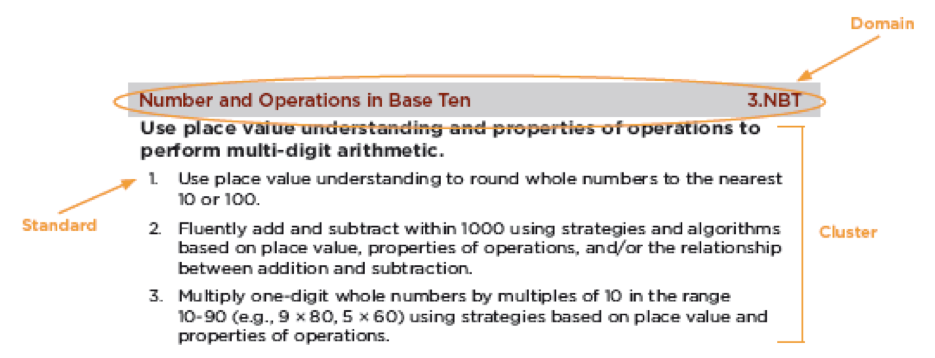
*“The Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students. These practices rest on important ‘processes and proficiencies” with longstanding importance in mathematics education’” (CCSS, p.6).*

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

**Standards** define what students should **understand** and **be able to do**.

**Clusters** summarize groups of related standards. (*Note that standards from different clusters may sometimes be closely related, because mathematics is a connected subject.)*

**Domains** are larger groups of related standards. Standards from different domains may sometimes be closely related. Unlike the 2003 NCSCOS, these will change throughout K-8.



**Course Structure**

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| **K-8** | **High School** |
| Set up by Grade Level  Not all Domains are present in each grade level | Set up by Domain  Each Course will pull from the various Domains  NCDPI has released Course I and is working on Course IV |

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| **Notes** |
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**Talking Points for Coaching Math Teachers**

* 1. What tasks are you assigning that build student understanding?
  2. How do you provide students opportunities to engage in patient problem solving?
  3. In what ways do students construct and share arguments in your classroom?
  4. In what ways do students defend their arguments?
  5. What opportunities do students have to challenge arguments?
  6. What opportunities do students have to model for their peers?
  7. How do students explore new concepts in your classroom?
  8. How are you using media to support student learning opportunities?
  9. What support do you need to be prepared for implementation of the new standards?
  10. How will student engagement differ as a result of the implementation of the new standards?

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|  | **Math Resources**  [**www.ncdpi.wikispaces.net**](http://www.ncdpi.wikispaces.net)  [**http://math.ncwiseowl.org**](http://math.ncwiseowl.org)  [**www.corestandards.org**](http://www.corestandards.org)  [**http://www.k12.wa.us/SMARTER/default.aspx**](http://www.k12.wa.us/SMARTER/default.aspx)  ***How can you use these sites to support teachers?*** |